



**SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

**C2H6S 15 PPM;O2 99,9985 %**

Issue Date:	20.12.2012	Version: 1.2	SDS No.: 000010016660
Revision Date:	16.11.2023		1/21
Last revised date :	28.08.2017		

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

Product name: C2H6S 15 PPM;O2 99,9985 %  
 Trade name: ODOROX®  
 UFI: 1X3V-AUJY-SW01-W6VD

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

Identified uses: Industrial and professional. Perform risk assessment prior to use.  
 Fuel gas for welding, cutting, heating, brazing and soldering applications.  
 Consumer use.

Uses advised against: Uses other than those listed above are not supported. Contact supplier for more information on uses.

**1.3 Details of the supplier of the safety data sheet**

Supplier  
 Linde Gas A/S Telephone: +4532836600  
 Lautruphøj 2-6  
 2750 Ballerup  
 E-mail: sds.ren@linde.com

1.4 Emergency telephone number: Poison control hotline: tel. +45 82 12 12 12

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards  
 Oxidizing gases Category 1 H270: May cause or intensify fire; oxidizer.



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Gases under pressure

Compressed gas H280: Contains gas under pressure; may explode if heated.

2.2 Label Elements



Signal Word: Danger

Hazard Statement(s): H270: May cause or intensify fire; oxidizer.  
H280: Contains gas under pressure; may explode if heated.

**Precautionary Statements**

General None.

Prevention: P220: Keep away from clothing and other combustible materials.  
P244: Keep valves and fittings free from oil and grease.

Response: P370+P376: In case of fire: Stop leak if safe to do so.

Storage: P403: Store in a well-ventilated place.

Disposal None.



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**2.3 Other hazards**

**Endocrine disrupting properties-Toxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Endocrine disrupting properties-Ecotoxicity**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical name	Chemical formula	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Dimethyl sulphide	C2H6S	15PPM	75-18-3	200-846-2	01-2119487127-32	-	
Oxygen	O2	99,9985%	7782-44-7	231-956-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	-	

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

# This substance has workplace exposure limit(s).

## This substance is listed as SVHC.PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.



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**Classification**

Chemical name	Classification	Notes
Dimethyl sulphide	CLP: Classification: Flam. Liq.: 2: H225; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: LD 0: > 2.000 mg/kg Acute toxicity, inhalation: LC 50: 40250 ppm Acute toxicity, dermal: LD 0: > 2.000 mg/kg	
Oxygen	CLP: Classification: Press. Gas: Compr. Gas: H280; Supplemental label information: None known. Specific concentration limit: None known. Acute toxicity, oral: None known. Acute toxicity, inhalation: None known. Acute toxicity, dermal: None known.	

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

**SECTION 4: First aid measures**

**General:** Move the exposed person to fresh air at once.

**4.1 Description of first aid measures**

**Inhalation:** Move the exposed person to fresh air at once.

**Eye contact:** Adverse effects not expected from this product.



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**Skin Contact:** Adverse effects not expected from this product.

**Ingestion:** Ingestion is not considered a potential route of exposure.

**4.2 Most important symptoms and effects, both acute and delayed:** Continuous inhalation of concentrations higher than 75% may cause nausea, dizziness, respiratory difficulty and convulsion.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Hazards:** None.

**Treatment:** None.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** Heat may cause the containers to explode.

**5.1 Extinguishing media**

**Suitable extinguishing media:** Water. Dry powder. Foam. Carbon Dioxide.

**Unsuitable extinguishing media:** None.

**5.2 Special hazards arising from the substance or mixture:** Supports combustion.

**Hazardous Combustion Products:** None.

**5.3 Advice for firefighters**

**Special fire-fighting procedures:** In case of fire: Stop leak if safe to do so. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.



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**Special protective equipment for fire-fighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Guideline: EN 469 Protective clothing for firefighters. Performance requirements for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for fire fighting in buildings and other structures. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures: Evacuate area. In case of leakage, eliminate all ignition sources. Provide adequate ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Monitor the concentration of the released product.
- 6.2 Environmental Precautions: Prevent further leakage or spillage if safe to do so.
- 6.3 Methods and material for containment and cleaning up: Provide adequate ventilation.
- 6.4 Reference to other sections: Refer to sections 8 and 13.



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**SECTION 7: Handling and storage:**

**7.1 Precautions for safe handling:** Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Keep equipment free from oil and grease. Open valve slowly to avoid pressure shock. Use only oxygen approved lubricants and sealants. Use only with equipment cleaned for oxygen service and rated for the pressure. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use. Damaged valves should be reported immediately to the supplier. Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.

**7.2 Conditions for safe storage, including any incompatibilities:** Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material. Avoid asphalted locations for storage, transfer and use (ignition risk if spilt). Segregate from flammable gases and other flammable materials being stored.



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7.3 Specific end use(s): None.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters**

**Occupational Exposure Limits**

None of the components have assigned exposure limits.

**Biological Limit Values**

No biological exposure limits noted for the ingredient(s).

**DNEL-Values**

Critical component	Type	Value	Remarks
Dimethyl sulphide	Workers - Inhalation, Systemic, long-term	12,3 mg/m3	-
	Workers - Dermal, Systemic, long-term	17,5 mg/kg	-

**PNEC-Values**

Critical component	Type	Value	Remarks
Dimethyl sulphide	Sediment (marine water)	0,012 mg/kg	-
Dimethyl sulphide	Aquatic (marine water)	0,003 mg/l	-
Dimethyl sulphide	Soil	0,007 mg/kg	-
Dimethyl sulphide	Aquatic (freshwater)	0,029 mg/l	-
Dimethyl sulphide	Sediment (freshwater)	0,12 mg/kg	-
Dimethyl sulphide	Sewage treatment plant	0,2 mg/l	-





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**8.2 Exposure controls**

**Appropriate engineering controls:**

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Avoid oxygen rich (>23,5%) atmospheres. Gas detectors should be used when quantities of oxidizing gases may be released. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. Systems under pressure should be regularly checked for leakages. Preferably use permanent leak tight connections (eg. welded pipes). Do not eat, drink or smoke when using the product.

**Individual protection measures, such as personal protective equipment**

**General information:**

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

**Eye/face protection:**

Wear eye protection to EN 166 when using gases.  
Guideline: EN 166 Personal Eye Protection.

**Skin protection**

**Hand Protection:**

Guideline: EN 388 Protective gloves against mechanical risks.  
Additional Information: Wear working gloves while handling containers

**Body protection:**

No special precautions.

**Other:**

Wear safety shoes while handling containers  
Guideline: ISO 20345 Personal protective equipment - Safety footwear.

**Respiratory Protection:**

Not required.

**Thermal hazards:**

No precautionary measures are necessary.

**Hygiene measures:**

Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.



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Environmental exposure controls:

For waste disposal, see section 13 of the SDS.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance

Physical state:	Gas
Form:	Compressed gas
Color:	O2: Colorless C2H6S: Colorless
Odor:	O2: Odorless C2H6S: Unpleasant odor of wild radish, cabbage-like
Odor Threshold:	Odor threshold is subjective and is inadequate to warn of over exposure.
Melting Point:	No data available.
Boiling Point:	No data available.
Flammability:	This product is not flammable.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable to gases and gas mixtures.
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not known.
pH:	Not applicable
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not known.
Dispersion Stability:	No data available.



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Vapor pressure:	No reliable data available.
Relative density:	No data available.
Density:	No data available.
Relative vapor density:	1,13 (calculated) 59 °F/15 °C
Particle characteristics:	Not applicable

**SECTION 10: Stability and reactivity**

10.1 Reactivity:	No reactivity hazard other than the effects described in sub-section below.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	Violently oxidises organic material. May react violently with combustible materials. May react violently with reducing agents.
10.4 Conditions to avoid:	None.
10.5 Incompatible Materials:	Combustible materials Reducing agents. Keep equipment free from oil and grease. For material compatibility see latest version of ISO-11114. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated polymers in high pressure (>30 bar) oxygen lines and equipment in case of combustion.
10.6 Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

**SECTION 11: Toxicological information**

General information: None.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute toxicity - Oral Product Based on available data, the classification criteria are not met.

Component Information Dimethyl sulphide LD 0 (Rat): > 2.000 mg/kg Remarks: Experimental result, Not specified



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**Acute toxicity - Dermal  
Product**

Based on available data, the classification criteria are not met.

**Component Information  
Dimethyl sulphide**

LD 0 (Rat): > 2.000 mg/kg Remarks: Read-across from supporting substance (structural analogue or surrogate), Key study

**Acute toxicity - Inhalation  
Product**

Based on available data, the classification criteria are not met.

**Component Information  
Dimethyl sulphide**

LC 50 (Rat, 4 h): 40250 ppm Remarks: Inhalation Experimental result, Key study

**Repeated dose toxicity  
Component Information  
Dimethyl sulphide**

NOAEL (Rat(Female, Male), Oral, 2 - 14 Weeks): >= 250 mg/kg Oral Experimental result, Key study

**Skin Corrosion/Irritation  
Product**

Based on available data, the classification criteria are not met.

**Serious Eye Damage/Eye Irritation  
Product**

Based on available data, the classification criteria are not met.

**Respiratory or Skin Sensitization  
Product**

Based on available data, the classification criteria are not met.

**Germ Cell Mutagenicity  
Product**

Based on available data, the classification criteria are not met.

**Carcinogenicity  
Product**

Based on available data, the classification criteria are not met.

**Reproductive toxicity  
Product**

Based on available data, the classification criteria are not met.



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**Specific Target Organ Toxicity - Single Exposure**

**Product** Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product** Based on available data, the classification criteria are not met.

**Aspiration Hazard**

**Product** Not applicable to gases and gas mixtures..

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:** The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Components:**

Dimethyl sulphide The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Oxygen The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

**Other information**

**Product:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Product** No ecological damage caused by this product.

**Acute toxicity - Fish**

**Component Information**

Dimethyl sulphide LC 50 (Oncorhynchus mykiss, 96 h): 213 mg/l (semi-static) Remarks: Experimental result, Key study



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**Acute toxicity - Aquatic Invertebrates**

**Component Information**

Dimethyl sulphide EC 50 (Daphnia magna, 48 h): 29 mg/l (Static) Remarks: Experimental result, Key study

**12.2 Persistence and Degradability**

**Product**

Not applicable to gases and gas mixtures..

**Biodegradation**

**Component Information**

Dimethyl sulphide 77 % Detected in water. Experimental result, Key study

**12.3 Bioaccumulative potential**

**Product**

The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.

**12.4 Mobility in soil**

**Product**

Because of its high volatility, the product is unlikely to cause ground or water pollution.

**12.5 Results of PBT and vPvB assessment**

**Product**

Not classified as PBT or vPvB.

**12.6 Endocrine disrupting properties:**

**Product:**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Components:**

Dimethyl sulphide

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.



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Oxygen

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects:**

**Other hazards**

**Product:** No data available.

**Other effects:** No ecological damage caused by this product.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** Do not discharge into any place where its accumulation could be dangerous. Vent to atmosphere in a well ventilated place.

**Disposal methods:** Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", downloadable at <http://www.eiga.org>) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state, or local laws.

**European Waste Codes**

**Container:** 16 05 04\*: Gases in pressure containers (including halons) containing hazardous substances.



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**SECTION 14: Transport information**

**ADR**

- 14.1 UN number or ID number: UN 3156
- 14.2 UN Proper Shipping Name: COMPRESSED GAS, OXIDIZING, N.O.S.(Oxygen)
- 14.3 Transport Hazard Class(es)
  - Class: 2
  - Label(s): 2.2, 5.1
  - Hazard No. (ADR): 25
  - Tunnel restriction code: (E)
- 14.4 Packing Group: -
  - Limited quantity: None.
  - Excepted quantity: None.
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: -

**RID**

- 14.1 UN number or ID number: UN 3156
- 14.2 UN Proper Shipping Name: COMPRESSED GAS, OXIDIZING, N.O.S.(Oxygen)
- 14.3 Transport Hazard Class(es)
  - Class: 2
  - Label(s): 2.2, 5.1
- 14.4 Packing Group: -
  - Limited quantity: None.
  - Excepted quantity: None.
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: -





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**IMDG**

- 14.1 UN number or ID number: UN 3156
- 14.2 UN Proper Shipping Name: COMPRESSED GAS, OXIDIZING, N.O.S.(Oxygen)
- 14.3 Transport Hazard Class(es)
  - Class: 2.2
  - Label(s): 2.2, 5.1
  - EmS No.: F-C, S-W
- 14.4 Packing Group: -
  - Limited quantity: None.
  - Excepted quantity: None.
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: -

**IATA**

- 14.1 UN number or ID number: UN 3156
- 14.2 Proper Shipping Name: Compressed gas, oxidizing, n.o.s.(Oxygen)
- 14.3 Transport Hazard Class(es):
  - Class: 2.2
  - Label(s): 2.2, 5.1
- 14.4 Packing Group: -
  - Limited quantity: None.
  - Excepted quantity: None.
- 14.5 Environmental hazards: Not applicable
- 14.6 Special precautions for user: -
  - Other information
  - Passenger and cargo aircraft: Allowed.
  - Cargo aircraft only: Allowed.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.



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**Additional identification:**

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers ensure that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**EU Regulations**

**EU. REACH Annex XIV, Substances Subject to Authorization as amended:** None present or none present in regulated quantities.

**EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:**

Classification	Lower-tier Requirements	Upper-tier Requirements
P4. Oxidizing gases	50 t	200 t

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	CAS-No.	Concentration
Oxygen	7782-44-7	90 - 100%

**National Regulations**

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 2016/425/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 2020/878.

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.



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**SECTION 16: Other information**

**Revision Information:** Not relevant.

**Abbreviations and acronyms:**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative



**SAFETY DATA SHEET**

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended

**C2H6S 15 PPM;O2 99,9985 %**

Issue Date:	20.12.2012	Version: 1.2	SDS No.: 000010016660
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**Key literature references and sources for data:**

Various sources of data have been used in the compilation of this SDS, they include but are not exclusive to:  
 Agency for Toxic Substances and Diseases Registry (ATSDR) (<http://www.atsdr.cdc.gov/>).  
 European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.  
 European Chemical Agency: Information on Registered Substances <http://apps.echa.europa.eu/registered/registered-sub.aspx#search>  
 European Industrial Gases Association (EIGA) Doc. 169 "Classification and Labelling guide", as amended.  
 International Programme on Chemical Safety (<http://www.inchem.org/>)  
 ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and oxidizing ability for the selection of cylinder valve outlets.  
 Matheson Gas Data Book, 7th Edition.  
 National Institute for Standards and Technology (NIST) Standard Reference Database Number 69.  
 The ESIS (European chemical Substances Information System) platform of the former European Chemicals Bureau (ECB) ESIS (<http://ecb.jrc.ec.europa.eu/esis/>).  
 The European Chemical Industry Council (CEFIC) ERICards.  
 United States of America's National Library of Medicine's toxicology data network TOXNET (<http://toxnet.nlm.nih.gov/index.html>)  
 Threshold Limit Values (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH).  
 Substance specific information from suppliers.  
 Details given in this document are believed to be correct at the time of publication.

**Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]**

Classification according to Regulation (EC) No 1272/2008 as amended.	Classification procedure
Oxidizing gases, Category 1	On basis of test data
Gases under pressure, Compressed gas	On basis of test data

**Wording of the H-statements in section 2 and 3**

H225	Highly flammable liquid and vapor.
H270	May cause or intensify fire; oxidizer.
H280	Contains gas under pressure; may explode if heated.



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**Training information:** Users of breathing apparatus must be trained. Ensure operators understand the hazard of oxygen enrichment. Ensure operators understand the hazards.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Ox. Gas 1, H270

Press. Gas Compr. Gas, H280

**Other information:** Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

**Last revised date:** 16.11.2023

**Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.